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| APPLICATION NO.  | FILING DATE    | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.     | CONFIRMATION NO. |
|--|----------------|----------------------|-------------------------|------------------|
| 09/746,139   | 12/22/2000     | Ken Umeno            | 35498-1005              | 2413             |
| 75   | 590 04/07/2004 |                      | EXAM                    | INER             |
| Mitchell P. Brook<br>c/o LUCE,FORWARD,HAMILTON & SCRIPPS |                |                      | NGO, CHUONG D           |                  |
| 11988 EL CAM   | •              | Jeidi i S            | ART UNIT                | PAPER NUMBER     |
| SUITE 200<br>San Diego, CA                               | . 02130        |                      | 2124                    | 8                |
| San Diego, CA  | 92130          |                      | DATE MAILED: 04/07/2004 | 4                |

Please find below and/or attached an Office communication concerning this application or proceeding.

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|--|---|--|-----------|
|  | Application No.   | Applicant(s)   | In        |
| 055 4 5 0  | 09/746,139  | UMENO, KEN   | V         |
| Office Action Summary  | Examiner  | Art Unit   |           |
| The MAN INC DATE of the  | Chuong D Ngo  | 2124   |           |
| The MAILING DATE of this communication appeared for Reply  | ppears on the cover sheet w   | ith the correspondence address   | ş         |
| A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR of after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a recommunication of the period for reply is specified above, the maximum statutory perions are period for reply within the set or extended period for reply will, by status and preply received by the Office later than three months after the mail the earned patent term adjustment. See 37 CFR 1.704(b).   | I.  1.136(a). In no event, however, may a lepty within the statutory minimum of thir by will apply and will expire SIX (6) MONute, cause the application to become Al | reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communi BANDONED (35 U.S.C. § 133). | lication. |
| Status   |   |  |           |
| Responsive to communication(s) filed on <u>28</u> This action is <b>FINAL</b> . 2b)⊠ The 3)□ Since this application is in condition for allow closed in accordance with the practice under   | nis action is non-final.  vance except for formal mat   | •  | its is    |
| Disposition of Claims  |   |  |           |
| 4)  Claim(s) <u>1-31</u> is/are pending in the application 4a) Of the above claim(s) is/are withdrest 5)  Claim(s) is/are allowed.  6)  Claim(s) <u>1-31</u> is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and   | rawn from consideration.  |  |           |
| Application Papers   |   |  |           |
| 9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) and according a deplicant may not request that any objection to the Replacement drawing sheet(s) including the correction.  11) The oath or declaration is objected to by the Replacement drawing sheet(s).  | ccepted or b) objected to<br>ne drawing(s) be held in abeyar<br>ection is required if the drawing   | nce. See 37 CFR 1.85(a).<br>(s) is objected to. See 37 CFR 1.1   | • •       |
| Priority under 35 U.S.C. § 119   |   |  |           |
| 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document of the copies of the priority document of the copies of the priority document of the copies of the certified copies of the priority document of the copies of the certified copies of the priority document of the copies of the copies of the priority document of the copies of the copies of the priority document of the copies of the copies of the priority document of the copies of the cop | nts have been received.<br>nts have been received in A<br>iority documents have been<br>au (PCT Rule 17.2(a)).  | application No received in this National Stage   | e         |
| Attachment(s)  | <b>"□.</b>  |  |           |
| <ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date <u>Z</u>.</li> </ol>  | Paper No(   | Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152)  |           |

Application/Control Number: 09/746,139

Art Unit: 2124

## **DETAILED ACTION**

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-31 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As per claim 1, the recitation "vector map f", line 2, is indefinite. It should be "vector mapping function f" in all the claims. Further, the recitation "which computes a scalar value w' = A(x)/p(x) based on vector x ... and said scalar value w", lines12-13" is indefinite since neither A(x) nor p(x) depends on "w". The recitation "and said scalar value w being stored in said second storage unit" should be deleted. Claim 11 and 21 has the same problems.

As per claim 3, the recitation "s' = w/c" is indefinite as it is inconsistent with "s' = w/(c+1)" recited in claim 1. Claims 13 and 23 have the same problems.

As per claim 7, it is indefinite as to what "k" is. "q3" should be "qk". Claim 14 also have the same problem.

As per claim 11, the recitations "said first computing unit" and "said second computing unit", line 15, lack proper antecedent basis.

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuong D Ngo whose telephone number is (703) 305-9764. The examiner can normally be reached on Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki can be reached on (703) 309-9662. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (tollfree).

> Chuong D Ngo **Primary Examiner**

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04/06/2004